

GG684 SELECT TOPICS IN GEOSPATIAL INTELLIGENCE

SYLLABUS

Course Information

Course number: GGS684
Course title: Select Topics in Geospatial Intelligence
Class Meetings: Exploratory Hall Room 2312; Wed 7:20pm – 10:00pm
Class Web Page: <http://ggs684.pbworks.com/>

Professor Contact Information

Professor: Anthony Stefanidis, PhD
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Course Description

Covers topics relevant to geospatial intelligence, especially addressing emerging trends, focused intelligence applications, and relevant technological advances, not covered by existing courses. The course offers an overview of structured analytical techniques, an overview of geospatial intelligence tradecraft and standard operational issues, as well as an overview of emerging technologies and approaches. The course requires analytical, collaborative, and communication skills.

Required Textbook

No required textbook. A number of reading assignments are distributed via the course website.

Grading Policy

Students are assigned homework exercises and a class project. They work individually and in teams. Evaluations are provided at each interim assignment and for the final project. Final grades are based on quality and content of presentations and reports, and class participation.

At the end of the term all the marks will be totaled as a weighted average according to the following weights:

Intermediate assignments	30%
Class participation	30%
Final report and presentation	40%

Final grades at the end of the course will be assigned using a combination of absolute achievements and relative standing in the class.

Course & Instructor Policies

Academic Integrity: Students are expected to follow the GMU Honor Code (academicintegrity.gmu.edu)

All academic accommodations regarding disabilities must be arranged through the **Office of Disability Resources** (703-993-2474)

Course outline (tentative)

Below you may find the typical outline of the course. Every semester we make some modifications to capture emerging issues in science or practice.

Week	Topic	Assignment	
		Release	Due
1	Introduction and overview of course objectives – GEOINT body of knowledge		
2	Structured analytic techniques	Assignment 1	Week 4
3	Projecting future geopolitical needs		
4	Structured analytic techniques Part 2: Presentations and discussion		
5	The history and evolution of geospatial intelligence	Project Part 1	Week 10
6	Strategic Intelligence		
7	Geospatial intelligence: Established and emerging sensors		
8	Harvesting GeoInt from Social Media Project Part 1: Projecting geopolitical needs – Presentations and discussion		
9	Spatial and temporal visualization of knowledge		
10	Class Project Part 1	Project Part 2	Week 15
11	Geoprivacy		
12	Hyperspectral Remote Sensing		
13	Open Street Map and Volunteered Geographic Information		
14	Professional accreditation, standards and ethics		
15	Project presentations		